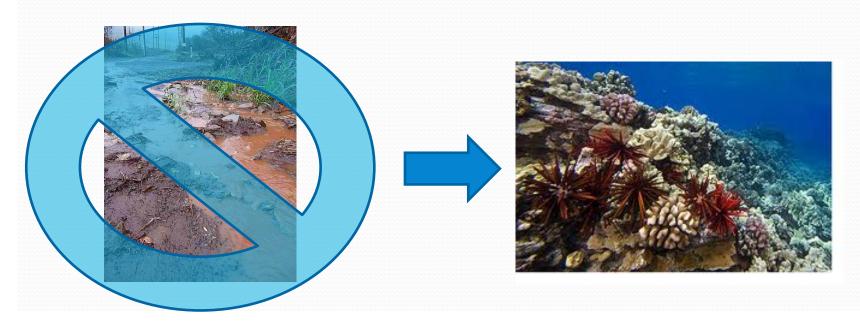
West Maui Ridge to Reef Initiative

Sharing Session Nov.2, 2012
Tova Callender,
West Maui Watershed & Coastal Management
Coordinator

Objective of Planning

 to identify sources of land-based pollutants and develop actions to remediate them to reduce stress on coral reefs.



Efforts focused on West Maui

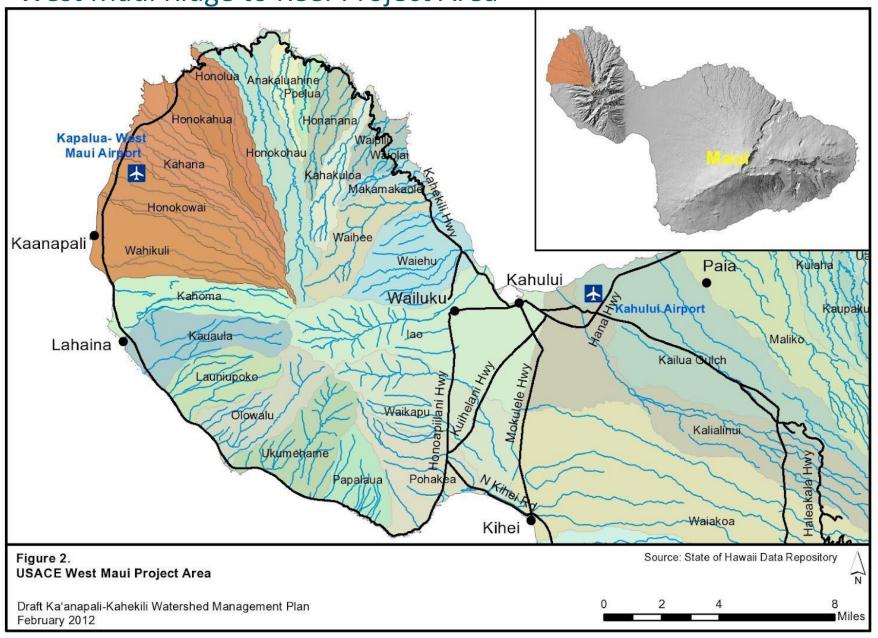
 Priority watershed partnership for USCRTF
 & priority site for Hawai`i Coral Program



- \$3m cost share agreement between US Army Corps and DLNR signed in September, 2012
- For planning in Kahana, Honokohua & Honolua



West Maui Ridge to Reef Project Area



West Maui Ridge to Reef Partners















Foundation





WMR2R Work Teams & Functions

West Maui Ridge to Reef Initiative

Five West Maui Watersheds: Wahikuli, Honokowai, Kahana, Honokohua & Honolua Strategy planning: Sept 2012- Sept 2015 Lead agencies: USACE & DLNR

Oversight, Funding & Plan Management

Funding and Agency Support Team (FAST)

This is the leadership team for the initiative that proves the highest level of oversight in managing funding, prioritization and the strategy development. It is lead by the USACE and DLNR and includes representation from NOAA, DOH, EPA, NRCS, FWS, USGS and NFWF.

Wahikuli- Honokow Watershed Management Plan Project Team

Lead by NOAA, this plan was developed by the consultancy firm SRGII with stakeholder input facilitated by the watershed coordinator. Plan Management

Communication

Project
Implementation,
Research, Support,
Action Planning
etc.

West Maui R2R Hui

In addition to entities listed above, all additional agencies, non-profits, community groups, individuals, businesses, landowners etc. who are in support of or taking action towards the goals of the R2R Initiative.

West Maui R2R Working Group

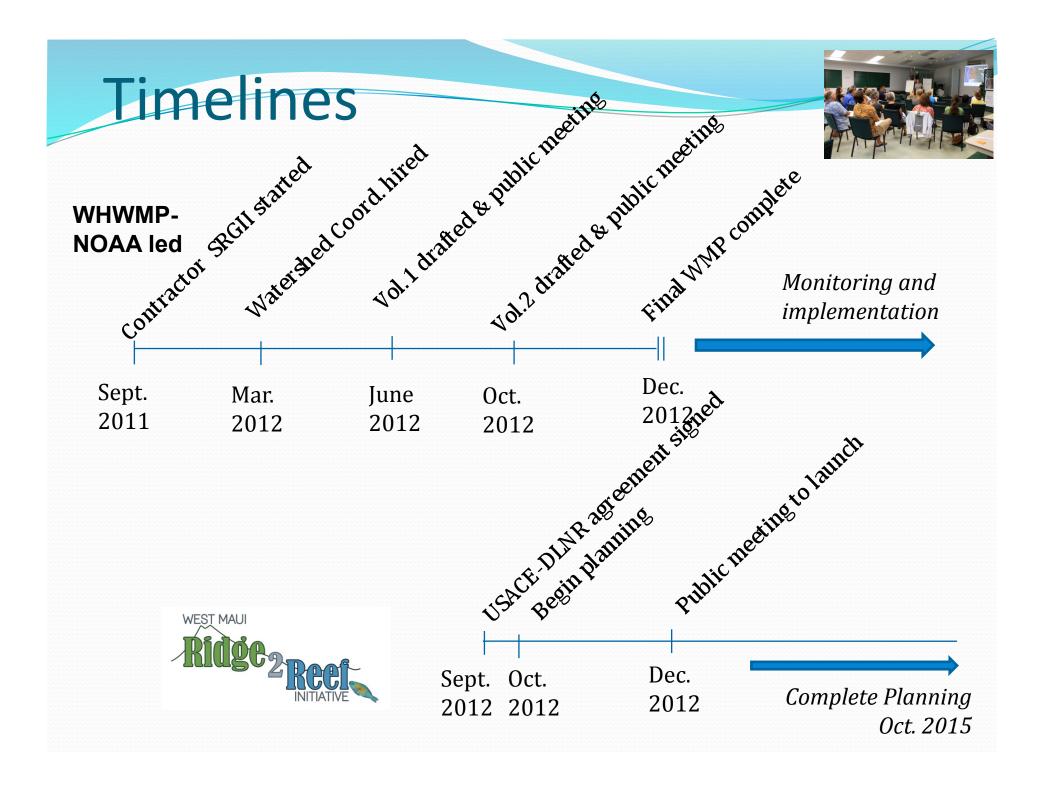
Tasked with providing local context and input into the R2R planning and activities, the working group is chaired by DLNR-DAR with local representation from WMMWP, Maui County, Maui Cultural Lands, WMSWCD, CORAL, Kaanapali Moku-Aha Moku Council, KOA, Honua Kai, ML&P and NFWF.

Local Advisory

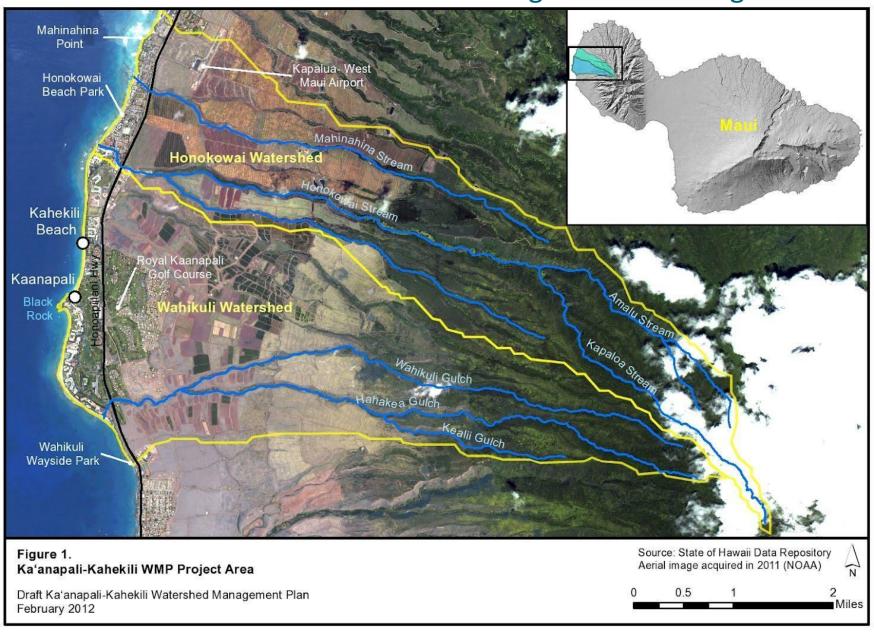
West Maui Ridge to Reef Working Group

(Two members missing)

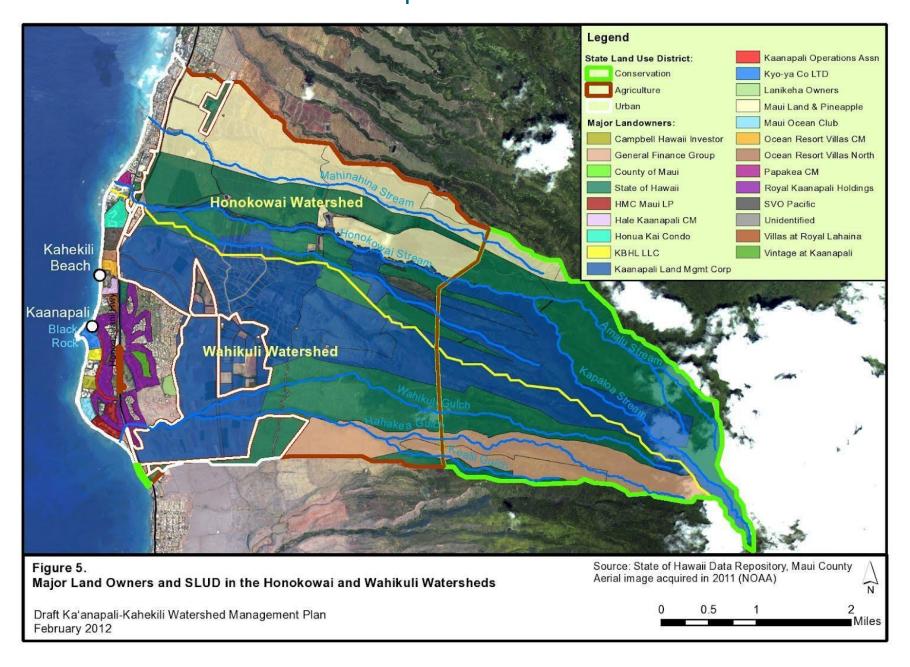




Wahikuli-Honokowai Watershed Management Planning Area



Land Use Districts and Ownership In Wahikuli & Honokowai Watersheds



Priority Issues in Wahikuli-Honokowai: Agricultural District

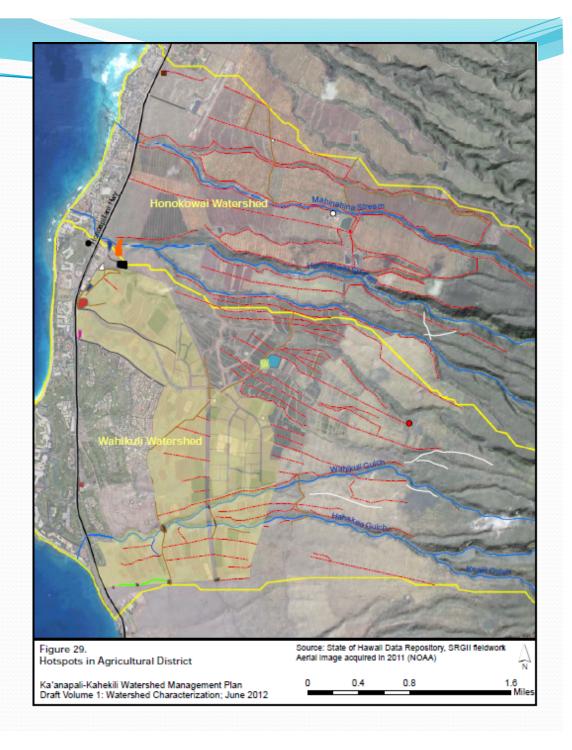
- Primary NPS pollutants: sediment and nutrients
- Highest priority
 hotspots: Eroding
 agricultural access
 roads and bare fields in
 former seed corn fields



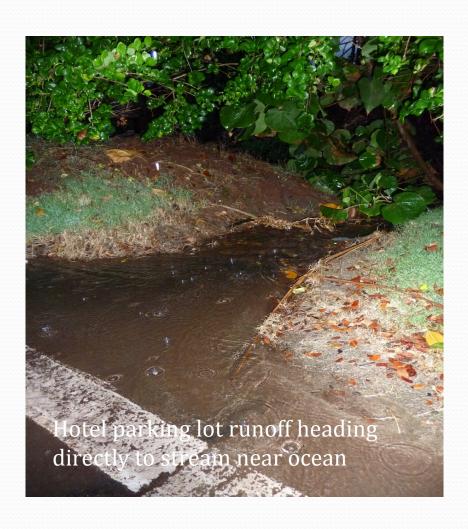
Summer intern Malia Santos knee deep in rut

Ag Roads & Fields

- Red lines are potentially problematic roads
- Tan shading is open former corn fields

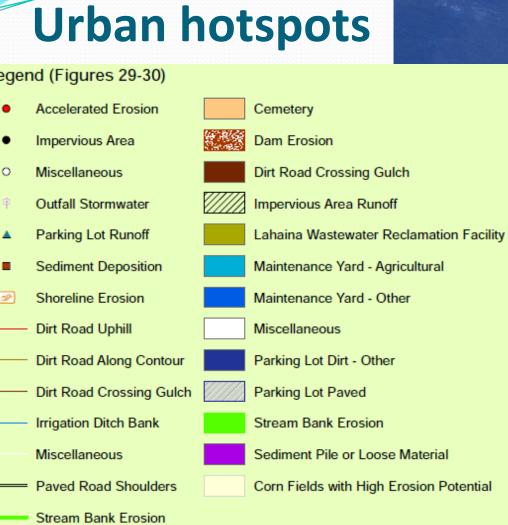


Priority Issues in Wahikuli-Honokowai: Urban District



- Primary NPS
 pollutants: nutrients
 and sediment
- Highest priority
 hotspots:
 landscaped areas,
 urban pollutants,
 Waste Water
 Reclamation Facility

Legend (Figures 29-30)



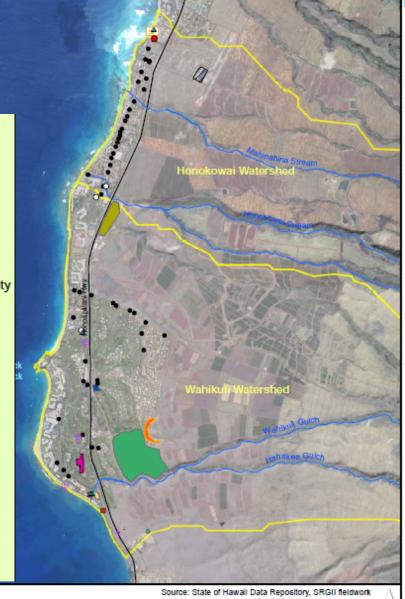


Figure 30. Hotspots in Urban District

Ka'anapali-Kahekili Watershed Management Plan Draft Volume 1: Watershed Characterization; June 2012 Aerial image acquired in 2011 (NOAA)



Priority Implementation projects: #1 Agricultural Road Remediation



#2 Cover bare fields



#3 Reduce injection well volume



#4 Engineering study for Honokowai Structure 8



#5 Engineering study for Wahikuli Gulch stabilization



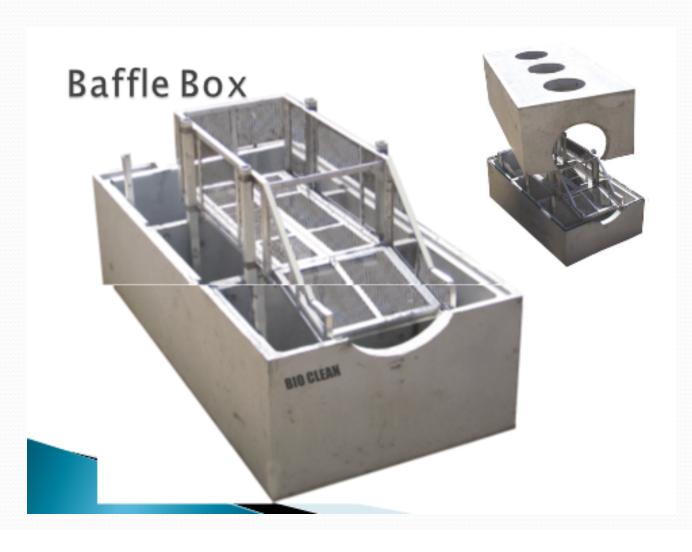
#6 Fertilizer management plans for urban and ag districts



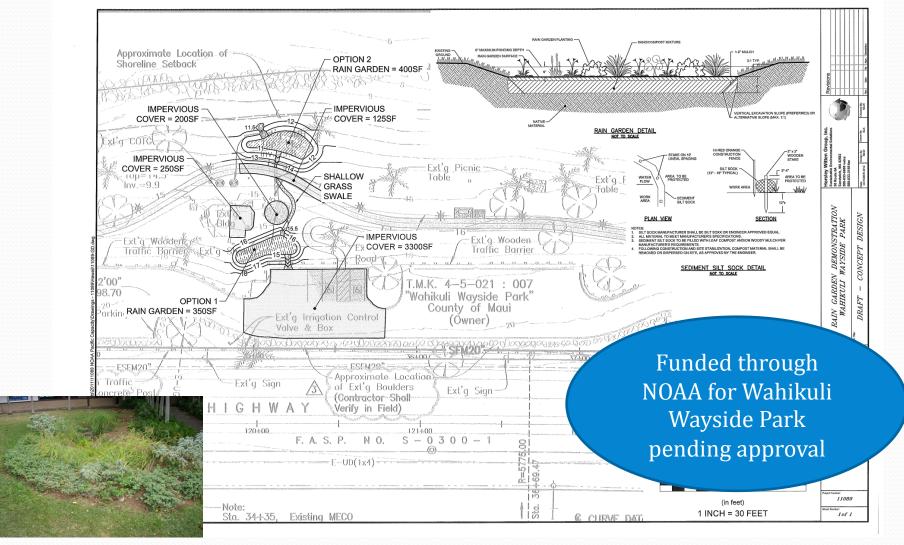
#7 Post-fire rehabilitation planning



#8 Baffle box installation in Honokowai



#9 Rain garden installations



Integrated Projects & Efforts

- NFWF- Conservation Innovation Grant- 1. gathering baseline data, 2. thresholds for sediment and 3. standardizing monitoring (using bio-marker work)
- NRCS West Maui Coral Reef Initiative funding program
- TNC- Conservation Action Planning, Kahekili
- Makai Watch, Ka`anapali
- Kahekili Herbivore Fisheries Management Area
- CORAL- Ka`anapali Hotel Coral Reef etiquette education
- West Maui Mountains Watershed Partnership

Additional partner projects

- Ongoing research
 - Tracer study (EPA/DOH)
 - Contaminant work (NOAA)
 - Stream assessment (USGS)
 - others
- Outreach & education- SeaWeb partnership on social marketing, PIP plan, partner grants
- Monitoring- baseline & effectiveness for each project
- Stakeholder engagement

Next Steps

- Final WHWMP complete and released early Dec. 2012
- Public meeting to launch West Maui Ridge to Reef Initiative, Dec.5th, 2012
- Match funding with projects
- Match projects with partners
- www.kaanapaliwmp.com or www.hawaiicoralreefstrategy.com